Meeting Purpose

• Provide an update on the technical process
• Introduce and gather feedback on detailed design
• Discuss next steps in the project moving forward
Design Workgroup Meeting #2: Agenda

- Welcome and Introductions
- Project Update: Conceptual to Detailed Design
- Community Input: What We Heard & How It Was Applied
- Breakout Discussions: Detailed Design Review
- Timing & Next Steps
Meeting Guidelines

- Demonstrate courtesy and respect
- Be collaborative
- Provide productive ideas and feedback
- Focus on the task at hand
- Actively listen, keep an open mind and refrain from interrupting
- Help us stay on agenda
Welcome and Introductions

- Denver Moves: Broadway Project Team Members
- Design Workgroup Members
- Community Members
Project Update: Conceptual to Detailed Design
Creating vibrant places where people of all ages and abilities feel comfortable using any mode of travel is central to the project’s goals:

- Everyone arrives safely
- Community and business collaboration
- New and enhanced mobility options for everyone

**Benefits**

**SAFETY:** Supports Vision Zero with street design that protects people walking and biking in part of Denver’s High Injury Network (HIN).

**EFFICIENCY:** Moves more people through the same amount of space by improving options for walking, biking, transit and driving.

**CONNECTIVITY:** Increases options for getting to and from downtown, entertainment districts, major transit stations and transportation corridors.

**COMMUNITY CHARACTER:** Provides opportunities for public art, landscaping and other streetscape improvements.
How We Got Here

Project Schedule

**PROJECT SCHEDULE**

2015-2018:
Broadway test bikeway (Bayaud to Virginia), data collection and reporting

Spring: Conceptual Design

Summer 2019+:
Funding Identification

2019:
Conceptual multimodal design of North Segment

Spring: Conceptual Design

Summer:
Detailed Design (60%)

Fall:
Final Design (Construction-ready)

2020+:
Implementation/Construction Planning
How We Got Here
Key Engagement Activities

- Design Workgroup Kickoff Meeting
- Community Meeting Outreach
  - West Washington Park Neighborhood Association
  - Baker Historic Neighborhood Association
  - Broadway Merchants Association
  - Maintenance Districts
- Public Survey
- Community Office Hours
- Bike to Work Day Tabling
- Denver Health Tabling
- Email List Updates
Conceptual (30%) Design

- Identify design envelope
  - *How much space do we have?*
- Determine conceptual layout and functionality
  - *What will we put in that space?*
Detailed (60%) Design

- Specific placement and development of key project elements:
  - Intersection layouts (e.g., ADA curb ramps, limits of disturbance, signals, beacons, etc.)
  - Bike lane buffer type
  - Curb lane use (e.g., loading zones, parking details, etc.)
  - Drainage/stormwater, etc.

Preliminary detailed (60%) design subject to change
From Detailed (60%) Design to Final

- What will it actually look like when it’s built?
  - Design of signage/wayfinding, bike rack locations, etc.
  - Selection of materials, plantings, etc.
  - Identification of green infrastructure
  - ADA-accessible requirements

Example of Lawrence/Arapahoe final design
Where We’re Going
Mayor’s Mobility Action Plan

Denver’s Mobility Action Plan
Denver is ready to transform its transportation system.

Strategic Goals

**CHOICE**
Providing more choices: Walk, Bike, Drive, Transit or Share

**SAFETY**
Improving safety through Vision Zero

**CLIMATE & HEALTH**
Expanding use of electric vehicles and charging stations

**ACCESSIBILITY**
Increasing technology to make your trip easier and faster

$2+ billion over the next 12 years to make it safer and easier to get where we need to go.
Next Steps

- Ongoing community engagement:
  - Community survey
  - Doughnuts & Design Open House: Sept. 27

- Upcoming meeting dates:
  - Workgroup #3: Draft Final Design (November/December)

- Implementation planning
  - Schedule updates
  - Construction management plans
Community Input:
What We Heard & How It Was Applied
## Community Input

### Incorporating Community Input into Design

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<td>Detailed design uses <em>concrete curb</em> with potential for planter retrofitting</td>
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<td><strong>Option 1A (plaza connection)</strong> used in detailed design</td>
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<td><strong>ADA-accessible parking</strong> is the #2 priority related to curb lane use</td>
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![Raised Concrete Buffer](image)

**Concrete Curb**

**Parking-Protected Bikeway**

**Raised Concrete Buffer**

- Width varies
- Concrete Buffer
- Asphalt Surface
- Reinforcement: #6 @ 60” O.C., 8” Length

*NTS*
# Community Input

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South Broadway and Cherry Creek

**Bike Path Connection**

Opt. 1A

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**Legend:**
- Red: On-street bike path
- Dashed red: Future on-street bike path
- Green: Sidewalk/bike path
- Black: Necessary bike path connection point
### Community Input

**Incorporating community input into design**

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**Corner Reconstruction**

**Accessible Pedestrian Curb Ramps**
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Protected vehicle left turn with bike and pedestrian signal phases
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| **Traffic Management:** Concerns exist regarding current traffic speeds and increased vehicle congestion on Broadway, as well as concerns about increased traffic diversion on adjacent side streets as a result of removing a vehicle travel lane on Broadway. | In order to safely manage traffic, a number of operational improvements will be made on Broadway and parallel roadways. These options include, but are not limited to:  
  • Traffic calming and safety improvements  
  • Signal timing/optimization  
  • Extended or new turning lanes  
  • Minimal capacity improvements through re-striping or minor curb/gutter relocation |
Breakout Discussions: Detailed Design Review
Current Street Design: Broadway and Center
Fully Improved Condition
Detailed Design Rendering

Upgraded Signals, Signs and Improved Lighting
Increased Visibility of Bike Signal

Two-way Cycle Track and Striping

Raised Concrete Buffer

Southbound Left-turn Lane
Raised Pedestrian Refuge
Corner Reconstruction

Accessible Pedestrian Curb Ramps
Detailed Design Rendering

24-Hour Transit Lane
Draft Community Survey

Amenity Areas: What potential amenities are most important?

- Bike/scooter parking
- Trash/recycling
- Public art (*requires consideration by Denver Arts and Venues public art committee)
- Planters (*would require maintenance support from a Business Improvement District, Maintenance District, etc.)
- Other

Curb Lane and On-Street Parking Areas:

- Do you agree with proposed locations for commercial/ride hailing loading zones?
- Are there other locations (cross-streets or address) where you would like to see a loading zone?
- Are there locations (cross-streets or address) where you would like to see designated ADA accessible parking?
- Are there changes you would like to see with curb lane space allocations? Potential modifications include metered parking, bike/scooter parking, etc.
Detailed Design Review